

What is claimed is:

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1. A rotary electric apparatus comprising a rotor having a permanent magnet, and a stator with magnet wires wound around stator cores, characterized in that plural enameled wires are twisted together to form a stranded cable which is used as said magnet wires.

2. A rotary electric apparatus as recited in claim 1, characterized in that; the rotor and the stator are placed within a casing, the rotor is shaft-supported for rotation with the casing, the stator is fixed to the casing, and an encoder for acquiring control signals is provided on the outside of the casing.

3. A rotary electric apparatus as recited in claim 1, characterized in that; the rotor and the stator are placed within a casing, the rotor is shaft-supported for rotation with the casing, the stator is fixed to the casing, and an encoder for acquiring control signals is provided on the inside of the casing.

4. A rotary electric apparatus as recited in claim 1, characterized in that the outlet wires are constituted with the stranded wires.

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